

Listing and Amendments to the Claims

This listing of claims will replace the claims that were published in the PCT Application and annexed to the International Report on Patentability:

1. (currently amended) Device for temporal slaving in a packet data transmission network, each data packet comprising a time label, the said device comprising means of temporary storage (6), intended to receive the packets received from the said network and having a storage capacity able to record data received for a predetermined time ~~(TPDV)~~ dependent on the characteristics of the network (5),

- the said device furthermore comprising
- means (7) for regenerating a local reception clock as a function of the time label of the incoming packets,
- means for reading the data in the means of temporary storage at an instant dependent on the said predetermined time ~~(TPDV)~~ and on the regenerated local reception clock;

~~characterized in that wherein~~ the means for regenerating a local reception clock comprise sub-means for accumulating said difference between the time levels of the incoming packets and the local reception clock during a period of time ~~(Tupdate)~~ and a sub-means for modifying in a non-linear manner the local reception clock according to said difference.

2. (currently amended) Device according to Claim 1, ~~characterized in that wherein~~ the means of reading the data in the means of temporary storage (6) are adapted for reading the data in the means of temporary storage (6) when the difference between the said predetermined time ~~(TPDV)~~ and the regenerated local clock is greater than the value of the time label of the next packet to be output from the means of temporary storage (6).

Claim 3 is cancelled.

4. (currently amended) Device according to ~~one of the preceding claims, characterized in that claim 1, wherein~~ it comprises means of reducing the convergence time on start-up, said means comprising sub-means for accumulating the said differences for a predetermined number of received packets and calculate a mean of said differences over said predetermined number of packets, said mean of said differences being subtracted from said differences.

5. (currently amended) Device according to ~~one of the preceding claims, characterized in that claim 1, wherein~~ it comprises means (31) of reducing the phase noise.

6. (currently amended) Device according to Claim 4, ~~characterized in that wherein~~ the means (31) of reducing the phase noise comprise a digital low-pass filter.

7. (currently amended) Device according to ~~one of the preceding claims, characterized in that claim 1, wherein~~ it comprises means (32) of generating artificial noise.

8. (currently amended) Method of temporal slaving in a packet data transmission network, each data packet comprising a time label, the said method comprising a step of temporary storage (6) of the packets received from the said network and ~~being characterized in that comprising:~~

- during the storage step, the data are stored for a predetermined time (IPDV) dependant on the characteristics of the network (5),
- the said method furthermore comprising
- a step of regenerating a local reception clock as a function of the time label of the incoming packets,
- a step of reading the data in the means of temporary storage at an instant dependent on the said predetermined time (IPDV) and on the regenerated local reception clock.